NEW MEXICO OIL CONSERVATION COMMISSION

HOBBS OFFICE OCC

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

1957 FEB 11 AM 10:04

Pool Jalmat Formation Yates-7 Rivers County Lea

Initial ____ Annual ____ Special X Date of Test 10-29 to 11-2-56

Company Delport Oil Corporation Lease Jones Well No. 1

Unit P Sec. 34 Twp. 22-S Rge. 36-E Purchaser El Paso Natural Gas Company

Casing 5½ Wt. 17 I.D. ____ Set at 3001 Perf. ____ To ____

Tubing 2 Wt. 4.70 I.D. 1995 Set at 3208 Perf. ____ To ____

Gas Pay: From 3095 To 3495 L 3288 xG .665 -GL ____ Bar.Press. 13.2

Producing Thru: Casing ____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 6-2-50 Packer None Reservoir Temp. ____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps Flange

No.	Flow Data (Prover) (Line) Size	Flow Data (Choke) (Orifice) Size	Flow Data Press. psig	Flow Data Diff. h_w	Flow Data Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI						868		862		72
1.	4	1.250	801	41.44	92	808		814		24
2.	4	1.250	751	39.69	89	755		761		24
3.	4	1.250	721	37.76	88	724		764		24
4.	4	1.250	685	32.81	88	690		743		24
5.										

Not enough draw down because of small orifice plate

FLOW CALCULATIONS

No.	Coefficient Flg (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	9.643	108.42		.9706	.9490	1.072	1034
2.	9.643	174.14		.9732	.9490	1.070	1661
3.	9.643	205.90		.9741	.9490	1.067	1960
4.	9.643	240.42		.9813	.9490	1.063	2297
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio Dry Gas cf/bbl.
Gravity of Liquid Hydrocarbons ____ deg.
F_c ____ $(1-e^{-s})$ ____

Specific Gravity Separator Gas ____
Specific Gravity Flowing Fluid ____
P_c 875.2 P_c^2 765.9

No.	P_w (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	827.2	668.9				684.3	81.6		79.3
2.	794.2	587.1				630.8	135.1		73.1
3.	777.2	543.5				604.0	161.9		70.0
4.	756.2	496.5				571.8	194.1		66.3
5.									

Absolute Potential: 8,000 MCFPD; n .91

COMPANY Delport Oil Corporation
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AGENT and TITLE W. R. Laney Vice-President
WITNESSED Edward Mabe
COMPANY El Paso Natural Gas Company

REMARKS

INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w). MCF/da. @ 15.025 psia and 60° F.

P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia

P_w = Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia

P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia

P_f = Meter pressure, psia.

h_w = Differential meter pressure, inches water.

F_g = Gravity correction factor.

F_t = Flowing temperature correction factor.

F_{pv} = Supercompressability factor.

n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t.